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From-Norris McLaughlin & Marcus

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MAR 10 2004

Date: March 2004

To: Examiner Bernadette Queen
US Patent and Trademark Office
Tel. 703-306-0275
Fax: 703-872-9306

Subject: USSN: 10/697,527
Our Ref.: 101195-4

From:

Comments: Re-faxing pgs.4-12 of a Sequence Listing as per Examiner Queen request.

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WMS Number WMS Primer Left

WMS Primer Right

Length (bp
in "cs")Annealing
Repeat Type Temperature

WMS052 5' CTA TGA GGC GGA GGT TGA AG 3' (SEQ. ID NO. 1)
 WMS053 5' OCA TCT GGT ACA CTA GCT GCC 3' (SEQ. ID NO. 3)
 WMS057 5' TCG ATT CTG AAA GGT TCA TCG 3' (SEQ. ID NO. 5)
 WMS058 5' TCT GAT CCC GTG AGT GTA ACA 3' (SEQ. ID NO. 7)
 WMS060 5' TGT CCT ACA CGG ACC ACG T 3' (SEQ. ID NO. 9)
 WMS063 5' TCG ACC TGA TCG CCC CTA 3' (SEQ. ID NO. 11)
 WMS067 5' ACC ACA CAA ACA AGG TAA GCG 3' (SEQ. ID NO. 13)
 WMS068 5' AGG CCA GAA TCT GGG AAT G 3' (SEQ. ID NO. 15)
 WMS070 5' AGT GGC TGG GAG AGT CTC AT 3' (SEQ. ID NO. 17)
 WMS071 5' GGC AGA GCA GCG AGA CTC 3' (SEQ. ID NO. 19)
 WMS077 5' ACA AAG GTA AGC AGC ACC TG 3' (SEQ. ID NO. 21)
 WMS082 5' ACG TTA GAA GGT GCA ATG GG 3' (SEQ. ID NO. 23)
 WMS088 5' CAC TAC AAC TAT GCG CTC GC 3' (SEQ. ID NO. 25)
 WMS095 5' OAT CAA ACA CAC ACC CCT CC 3' (SEQ. ID NO. 27)
 WMS099 5' AAG ATG GAC GTA TGC ATC ACA 3' (SEQ. ID NO. 29)
 WMS102 5' TCT CCC ATC CAA GCG CTC 3' (SEQ. ID NO. 31)
 WMS106 5' CTG TTC TTG COT GGC ATT AA 3' (SEQ. ID NO. 33)
 WMS107 5' ATT AAT ACC TGA GGG AGG TGC 3' (SEQ. ID NO. 35)
 WMS108 5' CGA CAA TGG GGT CTT AGC AT 3' (SEQ. ID NO. 37)
 WMS111 5' TCT GTA GGC TCT CTC CGA CTG 3' (SEQ. ID NO. 39)
 WMS112 5' CTA AAC ACG ACA GCG GTG G 3' (SEQ. ID NO. 41)
 WMS113 5' ATT CGA GGT TAG GAG GAA GAG G 3' (SEQ. ID NO. 43)
 WMS114 5' ACA AAC AGA AAA TCA AAA CCC G 3' (SEQ. ID NO. 45)

WMS118 5' GAT GTT GCC ACT TGA GCA TG 3' (SEQ. ID NO. 47)
 WMS119 5' TGA CTA ACA TCG TTT GTC ACG C 3' (SEQ. ID NO. 49)

5' TCG GGT GCT CTT CCA TTT 3' (SEQ. ID NO. 2)
 5' TCA TGG ATG CAT CAC ATC CT 3' (SEQ. ID NO. 4)
 5' CGA TCA AGT AGT TGA AAG CCG 3' (SEQ. ID NO. 6)
 5' GAA AAA AAT TGC ATA TGA GCC C 3' (SEQ. ID NO. 8)
 5' GCA TTG ACA GAT GCA CAC G 3' (SEQ. ID NO. 10)
 5' GCG CCT GGG TGA TGA ATA GT 3' (SEQ. ID NO. 12)
 5' CAA CCC TCT TAA TTT TGT TGG G 3' (SEQ. ID NO. 14)
 5' CTC CCT AGA TGG GAG AAG GG 3' (SEQ. ID NO. 16)
 5' GCC CAT TAC CGA GGA CAC 3' (SEQ. ID NO. 18)
 5' CAA GTG GAG CAT TAG GTA CAC G 3' (SEQ. ID NO. 20)
 5' ACC CTC TTG CCC GTG TTG 3' (SEQ. ID NO. 22)
 5' AGT GGA TGC ACC GAC TTT G 3' (SEQ. ID NO. 24)
 5' TCC ATT GGC TTC TCT CTC AA 3' (SEQ. ID NO. 26)
 5' AAT GCA AAG TGA AAA ACC CG 3' (SEQ. ID NO. 28)
 5' GCC ATA TTT GAT GAC GCA TA 3' (SEQ. ID NO. 30)
 5' TGT TGG TGG CTT GAC TAT TG 3' (SEQ. ID NO. 32)
 5' AAT AAG GAC ACA ATT GGG ATG G 3' (SEQ. ID NO. 34)
 5' GGT CTC AGG AGC AAG AAC AC 3' (SEQ. ID NO. 36)
 5' TGC ACA CTT AAA TTA CAT CCG C 3' (SEQ. ID NO. 38)
 5' ACC TGA TCA GAT CCC ACT CG 3' (SEQ. ID NO. 40)
 5' GAT ATG TGA GCA GCG GTC AG 3' (SEQ. ID NO. 42)
 5' GAG GGT CCG CCT ATA AGA CC 3' (SEQ. ID NO. 44)
 5' ATC CAT CGC CAT TGG AGT G 3' (SEQ. ID NO. 46)

5' GAT TAG TCA AAT GGA ACA CCC C 3' (SEQ. ID NO. 48)
 5' CAT GTC TCA ACC ACC CAC AG 3' (SEQ. ID NO. 50)

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WMS129	5' GAT CCA CTT TCT TCT CTC TC 3'	(SEQ. ID NO. 51)	5' GAT TAT ACT CGT GCC GAA AC 3'	(SEQ. ID NO. 52)	139	CT,CA	35 °C
WMS121	5' TCC TCT ACA AAC AAA CAC AC 3'	(SEQ. ID NO. 53)	5' CTC GCA ACT AGA GGT GTA TG 3'	(SEQ. ID NO. 54)	143	CA	30 °C
WMS122	5' GGG TGG GAG AAA GGA GAT G 3'	(SEQ. ID NO. 55)	5' AAA CCA TCC TCC ATC CTG G 3'	(SEQ. ID NO. 56)	149	CT,CA	60 °C
WMS124	5' OCC ATG GCT ATC ACC CAG 3'	(SEQ. ID NO. 57)	5' ACT GTT CCG TCC AAT TTG AG 3'	(SEQ. ID NO. 58)	213	CT,CTimp	60 °C
WMS126	5' CAC ACC CTC CAC CAT GAC 3'	(SEQ. ID NO. 59)	5' GTT GAG TTG ATG CCG GAG G 3'	(SEQ. ID NO. 60)	196	CA	60 °C
WMS128	5' AGC ACA TTT TAA CAC ACA TA 3'	(SEQ. ID NO. 61)	5' ATC TGT GAA ATT TTG AAA AC 3'	(SEQ. ID NO. 62)	176	CA	30 °C
WMS129	5' TCA GTG GGC AAG CTA CAC AG 3'	(SEQ. ID NO. 63)	5' AAA ACT TAG TAG CCG CGT 3'	(SEQ. ID NO. 64)	221	CTimp	35 °C
WMS130	5' ACC TCT GCT TCA CGA GGA AG 3'	(SEQ. ID NO. 65)	5' CTC CTC TTT ATA TCG CGT CCC 3'	(SEQ. ID NO. 66)	113	GT	60 °C
WMS131	5' AAT CCC CAC CGA TTC TTC TC 3'	(SEQ. ID NO. 67)	5' AGT TCG TGG GTC TCT GAT GG 3'	(SEQ. ID NO. 68)	131	CT	60 °C
WMS132	5' TAC CAA ATC GAA ACA CAT CAG G 3'	(SEQ. ID NO. 69)	5' CAT ATC AAG GTC TCC TTC CCC 3'	(SEQ. ID NO. 70)	119	GA, GAA	60 °C
WMS133	5' ATC TAA ACA AGA CCG CCG TG 3'	(SEQ. ID NO. 71)	5' ATC TGT GAC AAC CCG TGA DA 3'	(SEQ. ID NO. 72)	118	CT	60 °C
WMS134	5' CAT GGA ACT TAG ACA GAA TTG 3'	(SEQ. ID NO. 73)	5' CAG TAC TTG GTA CTG AAC AGG 3'	(SEQ. ID NO. 74)	111	CA	60 °C
WMS135	5' TGT CAA CAT GGT TTT GAA AAG G 3'	(SEQ. ID NO. 75)	5' ACA CTG TCA ACC TGG CAA TG 3'	(SEQ. ID NO. 76)	143	GA	55 °C
WMS136	5' GAC AGC ACC TTG CCG TTT G 3'	(SEQ. ID NO. 77)	5' CAT CCG CAA CAT GCT CAT C 3'	(SEQ. ID NO. 78)	206	CT	60 °C
WMS140	5' ATG GAG ATA TTT GGC CTA CAA C 3'	(SEQ. ID NO. 79)	5' CTT GAC TTC AAG CCG TGA CA 3'	(SEQ. ID NO. 80)	231	CT	55 °C
WMS144	5' TTT GCT GTG GTA CGA AAC ATA C 3'	(SEQ. ID NO. 81)	5' ACT CAC AAA TGT CTA ATA AAA C 3'	(SEQ. ID NO. 82)	289	GT	50 °C
WMS146	5' CCA AAA AAA CTG CCT GCA TG 3'	(SEQ. ID NO. 83)	5' CTC TGG CAT TCC TCC TTG G 3'	(SEQ. ID NO. 84)	162	GAimp	60 °C
WMS148	5' GTG AGG CAG CAA GAG AGA AA 3'	(SEQ. ID NO. 85)	5' CAA AGC TTG ACT CAG ACC AAA 3'	(SEQ. ID NO. 86)	103	CA	60 °C
WMS149	5' CAT TGT TTT CTG CCT CTA GCC 3'	(SEQ. ID NO. 87)	5' CTA GCA TCG AAC CTG AAC AGG 3'	(SEQ. ID NO. 88)	161	GA	55 °C
WMS153	5' GAT CTC CTC ACC CCG AAT TC 3'	(SEQ. ID NO. 89)	5' TGG TAG AGA AGG AGG GAG AG 3'	(SEQ. ID NO. 90)	188	GA	60 °C
WMS154	5' TCA CAG AGA GAG AGG GAG GG 3'	(SEQ. ID NO. 91)	5' ATG TGT ACA TGT TCC CTG CA 3'	(SEQ. ID NO. 92)	102	CA	55 °C
WMS155	5' CAA TCA TTT CCG CCT CCC 3'	(SEQ. ID NO. 93)	5' AAT CAT TGG AAA TCC ATA TCC C 3'	(SEQ. ID NO. 94)	141	CT	60 °C
WMS156	5' CCA ACC GTG CTA TTA GTC ATT C 3'	(SEQ. ID NO. 95)	5' CAA TCC AGG CCC TCC TAA C 3'	(SEQ. ID NO. 96)	277	GT	60 °C
WMS157	5' GTC CTC CCG GTA ACC TTG 3'	(SEQ. ID NO. 97)	5' GAG TGA ACA CAC GAG GCT TD 3'	(SEQ. ID NO. 98)	106	CT	60 °C
WMS159	5' GGG CCA ACA CTG GAA CAC 3'	(SEQ. ID NO. 99)	5' GCA GAA GCT TGT TGG TAG GC 3'	(SEQ. ID NO. 100)	192	GT	60 °C
WMS160	5' TTC AAT TCA GTC TTG GCT TGG 3'	(SEQ. ID NO. 101)	5' CTG CAG GAA AAA AAG TAC ACC C 3'	(SEQ. ID NO. 102)	184	GA	60 °C
WMS161	5' GAT CGA GTG ATG GCA GAT GG 3'	(SEQ. ID NO. 103)	5' TGT GAA TTA CTT GGA CTT GG 3'	(SEQ. ID NO. 104)	154	CT	60 °C
WMS162	5' AGT GGA TCG ACA AGG CTC TD 3'	(SEQ. ID NO. 105)	5' AGA AGA AGC AAA GGC TTC CC 3'	(SEQ. ID NO. 106)	208	CA	60 °C

139	CT,CA	35 °C
143	CA	30 °C
149	CT,CA	60 °C
213	CT,CTimp	60 °C
196	CA	60 °C
176	CA	30 °C
221	CTimp	35 °C
113	GT	60 °C
131	CT	60 °C
119	GA, GAA	60 °C
118	CT	60 °C
111	CA	60 °C
143	GA	55 °C
206	CT	60 °C
231	CT	55 °C
289	GT	50 °C
162	GAimp	60 °C
103	CA	60 °C
161	GA	55 °C
188	GA	60 °C
102	CA	55 °C
141	CT	60 °C
277	GT	60 °C
106	CT	60 °C
192	GT	60 °C
184	GA	60 °C
154	CT	60 °C
208	CA	60 °C

WMS163	5' ACC TCG ACA GAC CTG GTA CG 3'	(SEQ. ID NO. 107)	5' GTC TTT GTC ACC CGA TGG AC 3'	(SEQ. ID NO. 108)	127	CT	55 °C
WMS164	5' ACA TTT CTC CCC CAT CGT C 3'	(SEQ. ID NO. 109)	5' T TG TAA ACA AAT CGC ATG CG 3'	(SEQ. ID NO. 110)	120	CT	55 °C
WMS165	5' TGC AGT GGT CAG ATG TTT CC 3'	(SEQ. ID NO. 111)	5' CTT TTC TTT CAG ATT CGC CC 3'	(SEQ. ID NO. 112)	199	GA	60 °C
WMS169	5' ACC ACT GCA GAG AAC ACA TAC G 3'	(SEQ. ID NO. 113)	5' CTG CTC TGC TCT AAG TGT GGG 3'	(SEQ. ID NO. 114)	196	GA	60 °C
WMS174	5' GGG TTC CTA TCT GGT AAA TCC C 3'	(SEQ. ID NO. 115)	5' GAC ACA CAT GTT CCT GGC AC 3'	(SEQ. ID NO. 116)	173	CT	55 °C
WMS179	5' AAG TTG AGT TGA TGC GGG AG 3'	(SEQ. ID NO. 117)	5' CCA TGA CCA CCA TCC ACT C 3'	(SEQ. ID NO. 118)	181	GT	55 °C
WMS180	5' ATC CQC CTA AGG AAT AGT GT 3'	(SEQ. ID NO. 119)	5' GAT CGC ACG GGA GAG AGA G 3'	(SEQ. ID NO. 120)	84	CT	50 °C
WMS181	5' TCA TTG GTA ATG AGG AGA GA 3'	(SEQ. ID NO. 121)	5' GAA CCA TTC ATG TGC ATG TC 3'	(SEQ. ID NO. 122)	135	GA	50 °C
WMS182	5' TGA TGT AGT GAG CCC ATA GGC 3'	(SEQ. ID NO. 123)	5' TTG CAC ACA GCC AAA TAA GG 3'	(SEQ. ID NO. 124)	165	CT	60 °C
WMS186	5' GCA GAG CCT GGT TCA AAA AG 3'	(SEQ. ID NO. 125)	5' CGC CTC TAG CGA GAG CTA TG 5'	(SEQ. ID NO. 126)	140	GA	60 °C
WMS189	5' AGG ACC AGC GGA ACG AAC 3'	(SEQ. ID NO. 127)	5' AGA AAT ACG GAA ACC CAC CC 3'	(SEQ. ID NO. 128)	117	CA	55 °C
WMS190	5' GTG CTT GCT GAG CTA TGA GTC 3'	(SEQ. ID NO. 129)	5' GTG CCA CGT GGT ACC TTT G 3'	(SEQ. ID NO. 130)	>201	CT,GT	60 °C
WMS191	5' AGA CTG TTG TTT GCG GGC 3'	(SEQ. ID NO. 131)	5' TAG CAC GAC AGT TGT ATG CAT G 3'	(SEQ. ID NO. 132)	128	CT	60 °C
WMS192	5' GGT TTT CTT TCA GAT TGC GC 3'	(SEQ. ID NO. 133)	5' CGT TGT CTA ATC TTG CCT TGC 3'	(SEQ. ID NO. 134)	191	CT	60 °C
WMS193	5' CTT TGT GCA CCT CTC TCT CC 3'	(SEQ. ID NO. 135)	5' AAT TGT GTT GAT GAT TTG GGG 3'	(SEQ. ID NO. 136)	171	CT,CA	60 °C
WMS194	5' GAT CTG CTC TAC TCT CCT CC 3'	(SEQ. ID NO. 137)	5' CGA CGC AGA ACT TAA ACA AG 3'	(SEQ. ID NO. 138)	131	CT	50 °C
WMS195	5' AGG TGC CGT CGC GTC TAC 3'	(SEQ. ID NO. 139)	5' ACC CCC CAC GTC AGA GAG 3'	(SEQ. ID NO. 140)	108	CT	60 °C
WMS197	5' GAG AAA GAG GTC TGG AGG TCG 3'	(SEQ. ID NO. 141)	5' CAA AAT GCA CAA GAA TGG AGG 3'	(SEQ. ID NO. 142)	126	CT	60 °C
WMS198	5' TTG AAC CGG AAG GAG TAC AG 3'	(SEQ. ID NO. 143)	5' TCA GTT TAT TTT GGG CAT GTG 3'	(SEQ. ID NO. 144)	130	CA	60 °C
WMS200	5' TCA ACG GAA CAG ATG AGC G 3'	(SEQ. ID NO. 145)	5' GAC CTG ATG ACA GCA AGC AC 3'	(SEQ. ID NO. 146)	250	CT	60 °C
WMS201	5' CCC AAA GCA GCG CAA GC 3'	(SEQ. ID NO. 147)	5' ACC AAT GCT ATC GGC TCG 3'	(SEQ. ID NO. 148)	139	CA,GA	55 °C
WMS205	5' CGA CCC GGT TCA CTT CAG 3'	(SEQ. ID NO. 149)	5' AGT CGC CGT TGT ATA GTG CC 3'	(SEQ. ID NO. 150)	152	CT	60 °C
WMS210	5' TGC ATC AAG AAT AOT GTG GAA G 3'	(SEQ. ID NO. 151)	5' TGA GAG GAA GGC TCA CAC CT 3'	(SEQ. ID NO. 152)	192	GA	60 °C
WMS212	5' AAG CAA CAT TTG CTG CAA TG 3'	(SEQ. ID NO. 153)	5' TGC AGT TAA CTT GTT GAA AGG A 3'	(SEQ. ID NO. 154)	104	CT	60 °C
WMS213	5' TGC CTG GCT CGT TCT ATC TC 3'	(SEQ. ID NO. 155)	5' CTA GCT TAG CAC TGT CGC CC 3'	(SEQ. ID NO. 156)	184	GA	60 °C
WMS218	5' CGG CAA ACG GAT ATC GAC 3'	(SEQ. ID NO. 157)	5' AAC AGT AAC TCT CGC CAT AGC C 3'	(SEQ. ID NO. 158)	149	CT	60 °C
WMS219	5' GAT GAG CGA CAC CTA GCC TC 3'	(SEQ. ID NO. 159)	5' GGG GTC CGA GTC CAC AAC 3'	(SEQ. ID NO. 160)	181	GA,inp	60 °C
WMS224	5' TGA GTC CAG CAC TGC TGC 3'	(SEQ. ID NO. 161)	5' CAA CAT CCG CTC GTA TTC AA 3'	(SEQ. ID NO. 162)	142	CT	50 °C

WMS228	5' TCA TAT GCA CCT CTT TCC TAG G 3'	(SEQ. ID NO. 163)	5' GTG TGC CAC CTT TGA CGT C 3'	(SEQ. ID NO. 164)	210	CT,CA	60 °C
WMS231	5' AGC TCG GGA TGA AGC GTG 3'	(SEQ. ID NO. 165)	5' GAT CCG CCG CTG CGT TT 3'	(SEQ. ID NO. 166)	190	GAImp	60 °C
WMS232	5' ATC TCA AGC GCA AGC CG 3'	(SEQ. ID NO. 167)	5' CTG ATG CAA GCA ATC CAC C 3'	(SEQ. ID NO. 168)	141	GA	55 °C
WMS233	5' TCA AAA CAT AAA TGT TCA TTG GA 3'	(SEQ. ID NO. 169)	5' TCA ACC GTG TGT AAT TTT GTC C 3'	(SEQ. ID NO. 170)	261	CT	60 °C
WMS234	5' GAG TCC TGA TGT GAA GCT GTT G 3'	(SEQ. ID NO. 171)	5' CTC ATT GGG GTG TGT ACG TD 3'	(SEQ. ID NO. 172)	241	CT,CA	55 °C
WMS237	5' GAA TCA CTT GTG AAG CAT CTG G 3'	(SEQ. ID NO. 173)	5' CTG GAT GCA TCA CAT CCA AC 3'	(SEQ. ID NO. 174)	137	CT	55 °C
WMS238	5' TCG CTT CTA CCG CTC ACC 3'	(SEQ. ID NO. 175)	5' AGT CCG TTG CCG AGG TC 3'	(SEQ. ID NO. 176)	204	CT,GT,GGGT	55 °C
WMS241	5' TCT TCC AAC TAA AGC ATA GC 3'	(SEQ. ID NO. 177)	5' CTT CCA TGG ACT ACA TAC TAG C 3'	(SEQ. ID NO. 178)	146	GA	55 °C
WMS242	5' TCC AAG GCA GTA GGC AGG 3'	(SEQ. ID NO. 179)	5' TGT TGT TGG CCG GTC AT 3'	(SEQ. ID NO. 180)	142	GA	55 °C
WMS244	5' GGC AGC TGA GGC AAT CTG 3'	(SEQ. ID NO. 181)	5' TTT GGA CAT TTC CCA GCG 3'	(SEQ. ID NO. 182)	227	CAImp	60 °C
WMS245	5' CAG CCG AGT TAG CTC GC 3'	(SEQ. ID NO. 183)	5' ATC TGT CCA TTC GAG CCG 3'	(SEQ. ID NO. 184)	141	CT	60 °C
WMS247	5' GCA ATC TTT TTT CTG ACC ACG 3'	(SEQ. ID NO. 185)	5' ATG TGC ATG TCG GAC GC 3'	(SEQ. ID NO. 186)	138	GA	60 °C
WMS248	5' AGG ACT TCC GCA CCC TG 3'	(SEQ. ID NO. 187)	5' TGG CGT GGT CTA AAT GGA C 3'	(SEQ. ID NO. 188)	185	CA	60 °C
WMS249	5' CAA ATG GAT CGA GAA AGG GA 3'	(SEQ. ID NO. 189)	5' CTG CCA TTT TTC TGG ATC TAC C 3'	(SEQ. ID NO. 190)	177	GAImp	60 °C
WMS251	5' CAA CTG GTT GCT ACA CAA GCA 3'	(SEQ. ID NO. 191)	5' GGG ATG TCT GTT CCA TCT TAG 3'	(SEQ. ID NO. 192)	103	CA	55 °C
WMS255	5' CAA CTG TAC GTA GGT TTC ATT CC 3'	(SEQ. ID NO. 193)	5' TCT GGC GTA AGT CCG CTC 3'	(SEQ. ID NO. 194)	148	GA	55 °C
WMS257	5' AGA GTG CAT GGT GGG AGG 3'	(SEQ. ID NO. 195)	5' CCA AGA CGA TGC TGA AGT CA 3'	(SEQ. ID NO. 196)	192	GT	60 °C
WMS258	5' GAT CCG TTC ATC TCT CTC TCT C 3'	(SEQ. ID NO. 197)	5' GTA CAC GGC GTA GGC CC 3'	(SEQ. ID NO. 198)	>81	CT	60 °C
WMS259	5' AGG GAA AAG ACA TCT TTT TTT TC 3'	(SEQ. ID NO. 199)	5' CGA CCG ACT TCG GGT TC 3'	(SEQ. ID NO. 200)	105	GA	55 °C
WMS260	5' GGC CCG TTG CAC AAA TC 3'	(SEQ. ID NO. 201)	5' CGC AGC TAC AGG AGG CC 3'	(SEQ. ID NO. 202)	157	GA	55 °C
WMS261	5' CTC CCG GTA CCG CTA AGG C 3'	(SEQ. ID NO. 203)	5' CTC GCG CTA CTA GCC ATT G 3'	(SEQ. ID NO. 204)	192	CT	55 °C
WMS263	5' TCT CCG GTA AGT CCG CTC 3'	(SEQ. ID NO. 205)	5' GGT TTC ATT GCT TGC CCT AA 3'	(SEQ. ID NO. 206)	134	CT	55 °C
WMS264	5' GAG AAA CAT CCG GAA CAA CA 3'	(SEQ. ID NO. 207)	5' GCA TGC ATG AGA ATA GGA ACT G 3'	(SEQ. ID NO. 208)	219	CA	60 °C
WMS265	5' TGT TGC GGA TGG TCA CTA TT 3'	(SEQ. ID NO. 209)	5' GAG TAC ACA TTT GGC CTC TGC 3'	(SEQ. ID NO. 210)	200	GT	55 °C
WMS268	5' AGG GGA TAT GTT GTC ACT CCA 3'	(SEQ. ID NO. 211)	5' TTA TGT GAT TGC GTA CGT ACC C 3'	(SEQ. ID NO. 212)	241	GAImp	55 °C
WMS269	5' TGC ATA TAA ACA GTC ACA CAC CC 3'	(SEQ. ID NO. 213)	5' TTT GAG CTC CAA AGT GAG TTA CC 3'	(SEQ. ID NO. 214)	>148	CA	60 °C
WMS271	5' CAA GAT CCG GGA CCG AOC 3'	(SEQ. ID NO. 215)	5' AGC TGC TAG CTT TTG GGA CA 3'	(SEQ. ID NO. 216)	162	CT,GA	60 °C
WMS272	5' TGC TCT TTG GCG AAT ATA TGG 3'	(SEQ. ID NO. 217)	5' GTT CAA AAC AAA TTA AAA GGC CC 3'	(SEQ. ID NO. 218)	140	CA	55 °C

WMS372	5' TCA CAA AAT GAT TTC TCA TCC G 3'	(SEQ. ID NO. 275)	5' TCC AOA AAA CCA ACA AGG G 3'	(SEQ. ID NO. 276)	119	GA	55 °C
WMS375	5' TTT CTT CTG TCG TTC TCT TCC C 3'	(SEQ. ID NO. 277)	5' TTT TTA CGC GTC AAC GAC G 3'	(SEQ. ID NO. 278)	131	CT	55 °C
WMS378	5' GCA ATC CAC GAG AAG AGA GG 3'	(SEQ. ID NO. 279)	5' CAC AAA CTC TTG ACA TGT GCG 3'	(SEQ. ID NO. 280)	193	GT	55 °C
WMS380	5' TTG CTA TCC ATG TGC CAG AG 3'	(SEQ. ID NO. 281)	5' ACA TGT TTC ATG CAG GTA GCC 3'	(SEQ. ID NO. 282)	165	GTT	55 °C
WMS382	5' AGC CAG CAA GTC ACC AAA AC 3'	(SEQ. ID NO. 283)	5' AGT GCT GGA AAG AGT AGT GAA GC 3'	(SEQ. ID NO. 284)	231	GA	60 °C
WMS384	5' GCC CGG TCA TGT AAA ACG 3'	(SEQ. ID NO. 285)	5' TTT CAG TTT CCG TTA AGC TTT G 3'	(SEQ. ID NO. 286)	150	GA	55 °C
WMS386	5' AAT TTT CTT CTT CAC TTA TT 3'	(SEQ. ID NO. 287)	5' AAC ATG TGT TTT TAG CTA TC 3'	(SEQ. ID NO. 288)	123	GA	50 °C
WMS388	5' GGT ACT CCA CTC CAC ACG G 3'	(SEQ. ID NO. 289)	5' CGG TCC AAG TGC TAC CTT TC 3'	(SEQ. ID NO. 290)	187 (215)	GA, GCGT	55 °C
WMS390	5' CCG TTT AAT CTC GCT CCC TC 3'	(SEQ. ID NO. 291)	5' GTC TCT TTC TCG TAC TTC CAG G 3'	(SEQ. ID NO. 292)	108	CT	55 °C
WMS392	5' CCG TTT CTT CTT CAC TTA TT 3'	(SEQ. ID NO. 293)	5' TCC TAA CTG GCC TTT GCC 3'	(SEQ. ID NO. 294)	183	CT, CACT, CA	50 °C
WMS394	5' CCA ATC TTT TTT CTG ACC AG 3'	(SEQ. ID NO. 295)	5' AAA CGA ACA ACC ACT CAA TC 3'	(SEQ. ID NO. 296)	159	CT	50 °C
WMS396	5' TAT CCA GAG CAG ACG GAC G 3'	(SEQ. ID NO. 297)	5' ACD AGG CAA GAA CAC ACA TG 3'	(SEQ. ID NO. 298)	132	GA	55 °C
WMS398	5' CAA GGA AAT AGG CGG TAA CT 3'	(SEQ. ID NO. 299)	5' CCG ACA TCT CAT CGA TCC AC 3'	(SEQ. ID NO. 300)	133 (150)	CT	55 °C
WMS400	5' GGC TTC CAG AAA ACA ACA GG 3'	(SEQ. ID NO. 301)	5' GGT CTA GCT TCG ACD ACA CC 3'	(SEQ. ID NO. 302)	169	GT	55 °C
WMS402	5' CCA TGT TGA GTA GGT TCA GCC 3'	(SEQ. ID NO. 303)	5' ATT TGA GTC TGA AGT TTG CA 3'	(SEQ. ID NO. 304)	131	GT	55 °C
WMS404	5' TAT GGT CAA AGT TGG ACC TCG 3'	(SEQ. ID NO. 305)	5' GCA TGT GGT CCA TGT ACT GC 3'	(SEQ. ID NO. 306)	203	AT, GT	55 °C
WMS406	5' ACC TCA TCC ACA TGT TCT ACG 3'	(SEQ. ID NO. 307)	5' ATC GGT GCG TAC CAT CCT AC 3'	(SEQ. ID NO. 308)	210	GA	55 °C
WMS408	5' CCA TGT TGA GTA GGT TCA GCC 3'	(SEQ. ID NO. 309)	5' GCA TGG ATA GGA CCC CC 3'	(SEQ. ID NO. 310)	146	GT	55 °C
WMS410	5' AGC GTT CTT GGG AAT TAG AGA 3'	(SEQ. ID NO. 311)	5' CTT GGC CAG AAG CTA CCA AC 3'	(SEQ. ID NO. 312)	179	GCGT, GT	60 °C
WMS412	5' TAT GGT CAA AGT TGG ACC TCG 3'	(SEQ. ID NO. 313)	5' CCA ATC AGC CTG CAA CAA C 3'	(SEQ. ID NO. 314)	224	CA	55 °C
WMS414	5' AAA CAG CCG ATT TCA TCG AG 3'	(SEQ. ID NO. 315)	5' AGG CTG CAG CTC TTC TTC AG 3'	(SEQ. ID NO. 316)	123	GA	55 °C
WMS416	5' CTA ATT CCA ACA GGT CAT GGG 3'	(SEQ. ID NO. 317)	5' TCC GCT GTT GTT CTG ATC TC 3'	(SEQ. ID NO. 318)	164	GAimp	55 °C
WMS418	5' GTA ACT TGT TGC CAA AGG GG 3'	(SEQ. ID NO. 319)	5' TAC TTG TGT TCT GGG ACA ATG G 3'	(SEQ. ID NO. 320)	217	CT, CTimp	55 °C
WMS420	5' CCA TTT CAC CTA ATG CTT GC 3'	(SEQ. ID NO. 321)	5' ACA AAG TGG CAA AAG GAG ACA 3'	(SEQ. ID NO. 322)	126	GAimp	60 °C
WMS422	5' CTG CAG GCC ATG ATG ATG 3'	(SEQ. ID NO. 323)	5' AAT AAA ACC ATG ACC TCA CTT GC 3'	(SEQ. ID NO. 324)	249	AT	60 °C
WMS424	5' GAC CAA GAT ATT CAA ACT GGC C 3'	(SEQ. ID NO. 325)	5' ACC GTG GGT GTT GTG AGC 3'	(SEQ. ID NO. 326)	188	CTimp	60 °C
WMS426	5' AAT AGA GGC CTG GGA CTG GG 3'	(SEQ. ID NO. 327)	5' AGC TCA GCT TGC TTG GTA CC 3'	(SEQ. ID NO. 328)	170	CA, GA	60 °C
WMS428		(SEQ. ID NO. 329)	5' GAA GGA CCA CAT TCC ACC TG 3'	(SEQ. ID NO. 330)	>329	GA	60 °C

WMS374	5' ATA GTG TGT TGC ATG CTG TGT GJ' (SEQ. ID NO. 331)	5' TCT AAT TAG CGT TGT TGT CCJ'	(SEQ. ID NO. 332)	213	GT	60 °C
WMS375	5' ATT GGC GAC TCT AGC ATA TAC GJ' (SEQ. ID NO. 333)	5' GGG ATG TCT GTT CCA TCT TAG CJ'	(SEQ. ID NO. 334)	156	CA	55 °C
WMS376	5' GGG CTA GAA AAC AGG AAG GCJ' (SEQ. ID NO. 335)	5' TCT CCC GGA GGG TAG GAG J'	(SEQ. ID NO. 336)	147	CA, GAlimp	60 °C
WMS381	5' GTC AGA TAA CCG CGT CCA AT J' (SEQ. ID NO. 337)	5' CTA CGT GCA CCA CCA TTT TG J'	(SEQ. ID NO. 338)	115	GA	60 °C
WMS381	5' ACC CCA GTT GAT CCG TAA ACJ' (SEQ. ID NO. 339)	5' GAC ATC AAT AAC CGT GGA TGG J'	(SEQ. ID NO. 340)	195	GT	60 °C
WMS384	5' TTT TCA TTG TGC CCT CTA CT J' (SEQ. ID NO. 341)	5' GCC AAG TTT CTT AGC TAG TTA AJ'	(SEQ. ID NO. 342)	204	GTimp	55 °C
WMS388	5' CTA CAA TTC GAA GGA GAG GGG J' (SEQ. ID NO. 343)	5' CAC CGC GTC AAC TAC TTA AGCJ'	(SEQ. ID NO. 344)	162	CT,CA,CA	60 °C
WMS389	5' ATC ATG TCG ATC TCC TTG AGJ' (SEQ. ID NO. 345)	5' TGC CAT GCA CAT TAG CAG AT J'	(SEQ. ID NO. 346)	130	CT,GT	55 °C
WMS390	5' AAG TTT CAC ACA AGA TCT CTC CJ' (SEQ. ID NO. 347)	5' TGA CAA GTA CAC GAG TCT CCJ'	(SEQ. ID NO. 348)	143	CT,GT	55 °C
WMS391	5' ATA GCG AAG TCT CCC TAC TCC AJ' (SEQ. ID NO. 349)	5' ATG TGC ATG TCG GAC CCJ'	(SEQ. ID NO. 350)	150	CA,GA	55 °C
WMS393	5' TCA TCT GCT ATT TGT GCT ACA J' (SEQ. ID NO. 351)	5' TCA AAT ACA CCA ATG TGC CJ'	(SEQ. ID NO. 352)	107	CA	60 °C
WMS395	5' TAC AAC CGC AAG TAA TGC CAJ' (SEQ. ID NO. 353)	5' TAC CAA CAC CCT AGC CCT TG J'	(SEQ. ID NO. 354)	147	CA	55 °C
WMS397	5' TGT CAT GGA TTA TTT GGT CGG J' (SEQ. ID NO. 355)	5' CTG CAC TCT CGG TAT ACC AGCJ'	(SEQ. ID NO. 356)	179	CT	60 °C
WMS400	5' CTC CTG CCA CCA CTT GCJ' (SEQ. ID NO. 357)	5' TGT AGG CAC TGC TTG GGA GJ'	(SEQ. ID NO. 358)	139	CA	55 °C
WMS403	5' CGA CAT TGG CTT CGG TGJ' (SEQ. ID NO. 359)	5' ATA AAA CAG TGC GGT CCA GGJ'	(SEQ. ID NO. 360)	131	CA	55 °C
WMS408	5' TCG ATT TAT TTG GGC CAC TGJ' (SEQ. ID NO. 361)	5' GTA TAA TTC GTT CAC AGC AGC CJ'	(SEQ. ID NO. 362)	176	CA	55 °C
WMS410	5' CCC ATA CGA TGA TGT GTT TCCJ' (SEQ. ID NO. 363)	5' CGA GAC CTT GAG GGT CTA GA J'	(SEQ. ID NO. 364)	334	CA	55 °C
WMS411	5' ATC AAC AAG GTT TGT GTG TTG GJ' (SEQ. ID NO. 365)	5' CAA ACG GAA CAT GGT CCCJ'	(SEQ. ID NO. 366)	148	CT	55 °C
WMS412	5' TGC TTG TCT AGA TTG CTT GGGJ' (SEQ. ID NO. 367)	5' ATG AAA CCG GAC CTC CCJ'	(SEQ. ID NO. 368)	121	GA	60 °C
WMS413	5' GAT CTC CCA TGT CCG CCJ' (SEQ. ID NO. 369)	5' GAT CGT CTC GTC CTT GGC AJ'	(SEQ. ID NO. 370)	94	GA	55 °C
WMS415	5' GAG CCC ACA AGC TGG CAJ' (SEQ. ID NO. 371)	5' CGA CAG TCG TCA CTT GGC TA J'	(SEQ. ID NO. 372)	131	GAimp	60 °C
WMS423	5' AAA CTT AGA ACT GTA ATT TCA GA J' (SEQ. ID NO. 373)	5' TCG TTC TCC CAA GGC TTG J'	(SEQ. ID NO. 374)	143	CT	50 °C
WMS427	5' TCG TAC ATT AAG TTC CCA TTAJ' (SEQ. ID NO. 375)	5' AAT GTG TTC ATT TGA CAG TT J'	(SEQ. ID NO. 376)	215	CA	60 °C
WMS428	5' TCG TAC ATT AAG TTC CCA TTAJ' (SEQ. ID NO. 377)	5' TTC TCC ACT AGC CCC GCJ'	(SEQ. ID NO. 378)	143	GA	50 °C
WMS429	5' ATG AGT TCC GCC AAA GAA TGJ' (SEQ. ID NO. 381)	5' TTT AAG GAC CTA CAT GAC ACJ'	(SEQ. ID NO. 380)	221 (200)	CT	55 °C
WMS434	5' GAT CAA GAC TTT TGT ATC TCT CJ' (SEQ. ID NO. 383)	5' ACC AAA TAC ACA AGT GGG ACA J'	(SEQ. ID NO. 382)	216	GT	50 °C
WMS437	5' OCT ATG GTC TCC ATC ATG AGGJ' (SEQ. ID NO. 385)	5' GAT GTC CAA CAG TTA GCT TA J'	(SEQ. ID NO. 384)	109	CT	55 °C
WMS440		5' TCA TGT CAA CTC AAG AAC AGCJ'	(SEQ. ID NO. 386)	112	CT	

WMS443	5' GGG TCT TCA TCC GGA ACT CT 3' (SEQ. ID NO. 387)	5' CCA TGA TTT ATA AAT TCC ACC 3' (SEQ. ID NO. 388)	134	CA, GA	55 °C
WMS445	5' TTT GTT GGG GGT TAG TAG 3' (SEQ. ID NO. 389)	5' CCT TAA CAC TTG CTG GTA GTG A 3' (SEQ. ID NO. 390)	192	CT	55 °C
WMS448	5' AAA CCA TAT TGG GAG GAA AGG 3' (SEQ. ID NO. 391)	5' CAC ATG GCA TCA CAT TTG TG 3' (SEQ. ID NO. 392)	231	GA	60 °C
WMS455	5' ATT GGG TTC GCT AGC TAC CA 3' (SEQ. ID NO. 393)	5' ACC GAG AGC AAC CTG CC 3' (SEQ. ID NO. 394)	151	GTImp	55 °C
WMS456	5' TCT GAA CAT TAC ACA ACC CTG A 3' (SEQ. ID NO. 395)	5' TCC TCT CTC TGA ACC TGA ACC 3' (SEQ. ID NO. 396)	132	GA	55 °C
WMS458	5' AAT GGC AAT TGG AAG ACA TAG C 3' (SEQ. ID NO. 397)	5' TTC GCA ATG TTG ATT TGG C 3' (SEQ. ID NO. 398)	113	CA	60 °C
WMS459	5' ATG DAG TGG TCA CAC TTT GAA 3' (SEQ. ID NO. 399)	5' AGC TTC TCT GAC CAA CTT CTC G 3' (SEQ. ID NO. 400)	>138	GA	55 °C
WMS469	5' CAA CTC AGT GCT CAC ACA AGC 3' (SEQ. ID NO. 401)	5' CGA TAA CCA CTC ATC CAC ACC 3' (SEQ. ID NO. 402)	>156	CT	60 °C
WMS471	5' GGG CCC TAT CAT GGC TG 3' (SEQ. ID NO. 403)	5' GCT TGC AAG TTC CAT TTT GC 3' (SEQ. ID NO. 404)	149	CA	60 °C
WMS473	5' TCA TAC GGG TAT GGT TGG AC 3' (SEQ. ID NO. 405)	5' CAC CCG CTT GTT GGT CAC 3' (SEQ. ID NO. 406)	220	GTImp	55 °C
WMS476	5' ATG GGT TCG TAC TAA CAT CAG C 3' (SEQ. ID NO. 407)	5' TTG CTG GTA GCT TCA ATC CC 3' (SEQ. ID NO. 408)	>194	GAImp	60 °C
WMS480	5' TCG TGC TAC TTG TAC AGA GGA C 3' (SEQ. ID NO. 409)	5' CCG AAT TGT CCG CCA TAG 3' (SEQ. ID NO. 410)	188	CT, CA	60 °C
WMS484	5' ACA TCG CTC TTC ACA AAC CC 3' (SEQ. ID NO. 411)	5' AGT TCC GGT CAT GGC TAG C 3' (SEQ. ID NO. 412)	145	CT	55 °C
WMS494	5' ATT GAA CAG GAA GAC ATC AGG G 3' (SEQ. ID NO. 413)	5' TTC CTG GAG CTG TCT GGC 3' (SEQ. ID NO. 414)	198	CA	60 °C
WMS495	5' GAG AGC CTC GCG AAA TAT AGG 3' (SEQ. ID NO. 415)	5' TGC TTC TGG TGT TCC TTC G 3' (SEQ. ID NO. 416)	168	GA	60 °C
WMS497	5' GTA GTG AAG ACA AGG GCA TT 3' (SEQ. ID NO. 417)	5' CCG AAA GTT GGG TGA TAT AC 3' (SEQ. ID NO. 418)	>106	GTImp	55 °C
WMS499	5' ACT TGT ATG CTC CAT TGA TTG G 3' (SEQ. ID NO. 419)	5' GGG GAG TGG AAA CTG CAT AA 3' (SEQ. ID NO. 420)	145	GA	60 °C
WMS501	5' GGC TAT CTC TGG CCG TAA AA 3' (SEQ. ID NO. 421)	5' TCC ACA AAC AAG TAG CCG C 3' (SEQ. ID NO. 422)	172	CA	60 °C
WMS512	5' AGC CAC CAT CAG CAA AAA TT 3' (SEQ. ID NO. 423)	5' GAA CAT GAG CAG TTT GGC AC 3' (SEQ. ID NO. 424)	185	GT	60 °C
WMS513	5' ATC CGT AGC ACC TAC TGG TCA 3' (SEQ. ID NO. 425)	5' GGT CTG TTC ATG CCA CAT TG 3' (SEQ. ID NO. 426)	144	CA	60 °C
WMS515	5' AAC ACA ATG GCA AAT GCA GA 3' (SEQ. ID NO. 427)	5' CCT TCC TAG TAA GTG TGC CTC A 3' (SEQ. ID NO. 428)	134	GTImp	60 °C
WMS518	5' AAT CAC AAC AAG GCG TGA CA 3' (SEQ. ID NO. 429)	5' CAG GGT GGT GCA TGC AT 3' (SEQ. ID NO. 430)	166	CA	55 °C
WMS530	5' AAA TAG GAC AAG CCA CCG C 3' (SEQ. ID NO. 431)	5' TCA ACT TCT TGG CCT CCA TC 3' (SEQ. ID NO. 432)	186	CT	55 °C
WMS532	5' ACT GCG TGT GCC TAC AAT TG 3' (SEQ. ID NO. 433)	5' TCA CTC CCA CTC GAT AGG C 3' (SEQ. ID NO. 434)	142	GT	60 °C
WMS533	5' AAG GCG AAT CAA ACG GAA TA 3' (SEQ. ID NO. 435)	5' GTT GCT TTA GGG GAA AAG CC 3' (SEQ. ID NO. 436)	147	CT, CA	60 °C
WMS537	5' ACA TAA TCG TTC CTG TGC ACC 3' (SEQ. ID NO. 437)	5' GGC ACT TTT GTG TCG TTC CT 3' (SEQ. ID NO. 438)	209	CA, TA	60 °C
WMS538	5' GCA TTT CCG GTG AAC CC 3' (SEQ. ID NO. 439)	5' GTT GCA TGT ATA CGT TAA GCG G 3' (SEQ. ID NO. 440)	147	GTImp	60 °C
WMS540	5' TCT CCG TGT GAA ATC CTA TTT C 3' (SEQ. ID NO. 441)	5' AGG CAT GGA TAG AGG GCG 3' (SEQ. ID NO. 442)	129	CTImp	55 °C

WMS544	5' TAG AAT TCT TTA TGG GGT CTG C 3' (SEQ. ID NO. 443)	5' AGG ATT CCA ATC CTT CAA AAT T 3' (SEQ. ID NO. 444)	167	CT, ATCT, CT	55 °C
WMS550	5' CCC ACA AGA ACC TTT GAA GA 3' (SEQ. ID NO. 445)	5' CAT TGT GTG TGC AAG GCA C 3' (SEQ. ID NO. 446)	169	CT, CT	55 °C
WMS554	5' TGC CCA CAA CGG AAC TTG 3' (SEQ. ID NO. 447)	5' GCA ACC ACC AAG CAC AAA GT 3' (SEQ. ID NO. 448)	170	CT, GTimp	60 °C
WMS563	5' GCG TCA GAT ATG CCT ACC TAG G 3' (SEQ. ID NO. 449)	5' AGT GAG TTA GCC CTG AGC CA 3' (SEQ. ID NO. 450)	142	CA	60 °C
WMS566	5' TCT GTC TAC CCA TGG GAT TTG 3' (SEQ. ID NO. 451)	5' CTG GCT TCG AGG TAA GCA AC 3' (SEQ. ID NO. 452)	130	CA, TA	60 °C
WMS569	5' GGA AAC TTA TTG ATT GAA AT 3' (SEQ. ID NO. 453)	5' TCA ATT TTG ACA GAA GAA TT 3' (SEQ. ID NO. 454)	134	GT	47 °C
WMS570	5' TCG CCT TTT ACA GTC GGC 3' (SEQ. ID NO. 455)	5' ATG GGT AGC TGA GAG CCA AA 3' (SEQ. ID NO. 456)	143	CT, GT	60 °C
WMS573	5' AAG AGA TAA CAT GCA AGA AA 3' (SEQ. ID NO. 457)	5' TTC AAA TAT GTG GGA ACT AC 3' (SEQ. ID NO. 458)	212	CA	50 °C
WMS577	5' ATG GCA TAA TTT GGT GAA ATT G 3' (SEQ. ID NO. 459)	5' TGT TTC AAG CCC AAC TTC TAT T 3' (SEQ. ID NO. 460)	133	CA, TA	55 °C
WMS582	5' AAG CAC TAC CAA AAT ATG AC 3' (SEQ. ID NO. 461)	5' TCT TAA GGG GTG TTA TCA TA 3' (SEQ. ID NO. 462)	151	CA	50 °C
WMS583	5' TTC ACA CCC AAC CAA TAG CA 3' (SEQ. ID NO. 463)	5' TCT AGG CAG ACA CAT GCC TG 3' (SEQ. ID NO. 464)	165	CA	60 °C
WMS586	5' GAT CCC CAA TTG CAT GTT G 3' (SEQ. ID NO. 465)	5' CTT GCA ACT GGG GGA CAC 3' (SEQ. ID NO. 466)	102	GT	60 °C

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